# CTA Chest/abd/pelvis 64 Toshiba

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| **Indications** | trauma, acute aortic syndrome, suspected aneurysm/dissection |
| **Diagnostic Task** | Detect aneurysms, aortic dissections |
| **Scan mode** | Helical |
| **Position/Landmark** | Head or feet first-Supine 1cm superior to shoulder |
| **Topogram** | AP mA50 kV120 /Lat mA 70 kV120 |
| **kVp/Reference mass** | 135kv Sure Exp 3D(80-550) |
| **Rotation time/pitch** | 0.5\0.828 |
| **Detector Configuration** | 64x0.5 |
| **Table Speed/Increment** | 26.5 |
| **Dose reduction** | Sure Exp 3D |
| **Allowed CTDI ranges*** | 7mGy-50mGy |
| **XR29 Dose Notification value** | 50mGy |

**Helical Set #1**

| recon | body part | thickness spacing | algorithm | recon destination |
|---|---|---|---|---|
| 1 | chest | 1.5mmx 1.5mm | standard | pacs |

**Helical Set #2**

| recon | body part | thickness spacing | algorithm | recon destination |
|---|---|---|---|---|
| 1 | chest | 2mmx 2mm | standard | pacs |
| 2 | lung | 1mmx1mm | lung | pacs |
| 3 | sag cap | 2mmx2mm | standard | pacs |
| 4 | coronal cap | 2mmx2mm | standard | pacs |
| 5 | axial mip lung | 10mmx2mm | standard | pacs |
| 6 | MIP coronal aorta | 5mmx2mm | standard | pacs |
| 6 | MIP sag aorta | 5mmx2mm | standard | pacs |
| 8 | thin cap | 1mmx0.8mm | standard | pacs/TR |

**When super D or stereo chest**

** When super D or stereo chest ordered and on all FHS pulmonary patients**

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| **Scan Start/end location** | NC 2cm superior to lung apices// arterial 2cm superior to lung apices |
| | NC through hepatic dome// lesser trochanters |
| **DFOV** | 40cm |
| **IV contrast volume/type** | 100ml isovue 370 3-4cc/sec |
| | Performed as directed by the supervising radiologist |
| **Scan delay** | Surestart |
| | bolus tracking in the descending aorta(level just inferior to carina) |
| | Comments: Being able to locate the descending aorta is important. The monitoring phase will not trigger |
| | properly and the scan will not start correctly if the roi is not placed on the correct anatomy. |

Approximate Values for CTDIvol

| Patient size | weight(kg) | weight(lbs) | CTDIvol(mGy) |
|---|---|---|---|
| SMALL | 50-70 | 110-155 | 4-10 |
| AVERAGE | 70-90 | 155-200 | 8-16 |
| LARGE | 90-120 | 200-265 | 14-22 |

NOTE*

*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum

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Approved by Dr Verdini

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| allowed range should not be performed unless approved by a radiologist. |